

Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Original) An automated recommendation system, comprising:
- a processor connected to receive resource data defining available resources and at least two sets of profile data, each defining user preferences with respect to said resources;
  - each of said sets of profile data being derived from a different class of interaction of said user with a first portion of said resource data and usable to predict a given resource's desirability based on said each of said sets;
  - said processor being adapted to generate a weighted sum of corresponding records from each of said sets to generate a single combined set of profile data.
2. (Original) A system as in claim 1, wherein
- said processor is further adapted to generate predictions from said single combined set.
3. (Original) A system as in claim 2, wherein
- said processor is connected to control a delivery of resources corresponding to said resource data and responsively to said predictions.
4. (Original) A system as in claim 1, wherein
- said processor is connected to control a delivery of resources corresponding to said resource data and responsively to said predictions.
5. (Original) A system as in claim 1, wherein
- said at least two profile data sets include
  - a feedback data set derived from ratings provided by said user with respect to a particular resource in said resource data.

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6. (Original) A system as in claim 1, wherein  
said at least two profile data sets include  
an implicit data set derived from machine-observation of a user's resource  
use history, whereby said implicit data reflects said user's selections of resources to use.
7. (Currently Amended) A system as in claim 1, wherein  
at least one set of the at least two profile data sets comprises input vectors, and  
said input vectors each include feature-value pairs.
8. (Currently Amended) A system as in claim 1, wherein  
at least one set of the at least two profile data sets comprises input vectors, and  
said input vectors include feature-value pairs and a rating value.

9. (Original) A method of recommending resources, comprising the steps of:  
generating at least two sets of profile data based on expressed preferences of a user with respect to said resources each being usable to predict a given resource's desirability based on said each of said sets;  
generating a weighted sum of corresponding records from each of said sets to generate a single combined set of profile data.
10. (Original) A method as in claim 9, further comprising the step of  
generating predictions from said single combined set.
11. (Original) A method as in claim 10, further comprising the step of  
controlling a delivery of resources corresponding to said resource data responsively to said predictions.
12. (Original) A method as in claim 9, further comprising the step of  
controlling a delivery of resources corresponding to said resource data responsively to said predictions.
13. (Original) A method as in claim 9, wherein  
said step of generating includes  
generating a feedback data set by accepting ratings from a user with respect to a particular resource in said resource data.
14. (Original) A method as in claim 9, wherein  
said step of generating includes  
generating an implicit data set by observing a user's resource use history, whereby said implicit data reflects said user's selections of resources to use.

15. (Currently amended) A method as in claim 9, wherein  
at least one set of the at least two profile data sets comprises input vectors, and  
said input vectors each include feature-value pairs.
16. (Currently amended) A method as in claim 9, wherein  
at least one set of the at least two sets of profile data comprises input vectors, and  
said step of generating the at least two sets of profile data includes generating  
feature-value pairs and a rating value.
17. (Original) A method as in claim 9, wherein:  
said sets of profile data includes  
a set of explicit profile data indicating express indications by a user of  
preferred classes of programming rather than indications by said user of particular  
resources that are preferred;  
said sets of profile data further include  
feedback data set derived from ratings provided by said user with respect  
to a particular resource in said resource data; and  
said sets of profile data further include  
an implicit data set derived from machine-observation of a user's resource  
use history, whereby said implicit data reflects said user's selection.

18. (Original) An automated recommendation system, comprising:
- a processor connected to receive resource data defining available resources and sets of profile data, each defining user preferences with respect to said resources;
  - said sets of profile data including
    - a set of explicit profile data indicating express indications by a user of preferred classes of programming rather than indications by said user of particular resources that are preferred;
    - said sets of profile data further including
      - feedback data set derived from ratings provided by said user with respect to a particular resource in said resource data; and
      - said sets of profile data further including
        - an implicit data set derived from machine-observation of a user's resource use history, whereby said implicit data reflects said user's selection;
    - said processor being adapted to generate at least two sets of predictions based on one or a combination of said sets of profile data, each of said predictions including a confidence level;
    - said processor being further adapted to combine said predictions by weight-averaging corresponding ones from each of said at least two sets .

19. (Original) A system as in claim 18, wherein

    - said processor is further adapted to adjust weights of said weight averaging responsively to a difference between said corresponding ones.

20. (Original) A system as in claim 18, wherein

    - said processor is further adapted to selectively override said weight averaging responsively to a difference between said corresponding ones.

21. (Original) A method of automatically recommending resources, comprising the steps of:
- receiving resource data defining available resources and sets of profile data, each defining user preferences with respect to said resources;
  - said sets of profile data including
    - a set of explicit profile data indicating express indications by a user of preferred classes of programming rather than indications by said user of particular resources that are preferred;
    - said sets of profile data further including
      - feedback data set derived from ratings provided by said user with respect to a particular resource in said resource data; and
      - said sets of profile data further including
        - an implicit data set derived from machine-observation of a user's resource use history, whereby said implicit data reflects said user's selection;
    - generating at least two sets of predictions based on one or a combination of said sets of profile data, each of said predictions including a confidence level;
    - combining said predictions by weight-averaging corresponding ones from each of said at least two sets to produce a combined set.

22. (Original) A method in claim 21, wherein

    - said step of combining includes
      - adjusting weights of said weight averaging responsively to a difference between said corresponding ones.

23. (Original) A method as in claim 21, wherein

    - said step of combining includes
      - selectively overriding said weight averaging responsively to a difference between said corresponding ones such that a prediction of a one of said sets of predictions is included in said combined set and a prediction of the other of said sets of predictions is excluded.

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24. (Original) A method of combining profile data, comprising the steps of:  
generating first profile data by receiving through a user interface user preferences  
in the form of expressed generalized preferences corresponding classes of resources;  
generating second profile data by receiving user preferences in the form of rating  
data corresponding to specific resources;  
combining said first and second profile data to produce predictions by one of:  
applying said first and second profile data to respective prediction engines  
and combining respective results thereof; and  
directly combining said first and second profile data to a prediction  
engine.
25. (Original) A method as in claim 24, wherein  
said step of directly combining includes weight averaging corresponding ones of  
said profile data.
26. (Original) A method as in claim 24, wherein  
said step of combining respective results includes selectively weight averaging  
corresponding ones of said predictions.
- 27-29 (Canceled).
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